

## 1475: METALLIBACTERIUM MEDIUM

(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	132.00	mg
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	53.00	mg
KH <sub>2</sub> PO <sub>4</sub>	27.00	mg
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	147.00	mg
VOSO <sub>4</sub> x 5 H <sub>2</sub> O	0.50	mg
<b>Wolfe's mineral elixir</b>	1.00	ml
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	10.00	mg
Trypticase peptone (BD BBL)	1.40	g
<b>Wolin's vitamin solution (10x)</b>	1.00	ml
Distilled water	1000.00	ml

Dissolve ingredients except vitamins and ferrous sulfate and adjust pH of solution to 5.0. Dissolve ferrous sulfate (1% w/v) in 0.1 N H<sub>2</sub>SO<sub>4</sub> and add to the medium prior to autoclaving. After autoclaving add vitamins from a stock solution that has been sterilized by filtration.

### Wolfe's mineral elixir (from medium 792)

MgSO <sub>4</sub> x 7 H <sub>2</sub> O	30.00	g
MnSO <sub>4</sub> x H <sub>2</sub> O	5.00	g
NaCl	10.00	g
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	1.00	g
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	1.80	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	1.00	g
ZnSO <sub>4</sub> x 7 H <sub>2</sub> O	1.80	g
CuSO <sub>4</sub> x 5 H <sub>2</sub> O	0.10	g
AlK(SO <sub>4</sub> ) <sub>2</sub> x 12 H <sub>2</sub> O	0.18	g
H <sub>3</sub> BO <sub>3</sub>	0.10	g
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	0.10	g
(NH <sub>4</sub> ) <sub>2</sub> Ni(SO <sub>4</sub> ) <sub>2</sub> x 6 H <sub>2</sub> O	2.80	g
Na <sub>2</sub> WO <sub>4</sub> x 2 H <sub>2</sub> O	0.10	g
Na <sub>2</sub> SeO <sub>4</sub>	0.10	g
Distilled water	1000.00	ml

First adjust pH to 1.0 with diluted H<sub>2</sub>SO<sub>4</sub>, then add and dissolve the salts.

### Wolin's vitamin solution (10x) (from medium 120)

Biotin	20.00	mg
Folic acid	20.00	mg
Pyridoxine hydrochloride	100.00	mg
Thiamine HCl	50.00	mg

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Riboflavin	50.00	mg
Nicotinic acid	50.00	mg
Calcium D-(+)-pantothenate	50.00	mg
Vitamin B <sub>12</sub>	1.00	mg
p-Aminobenzoic acid	50.00	mg
(DL)-alpha-Lipoic acid	50.00	mg
Distilled water	1000.00	ml